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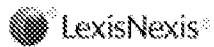
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306727 (10) 6689373 February 10, 2004

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

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February 10, 2004

Devices and methods for pain management

**INVENTOR:** Johnson, Randolph Mellus - Half Moon Bay, California, United States (US); Theeuwes, Felix - Los Altos Hills, California, United States (US)

**APPL-NO:** 306727 (10)

**FILED-DATE:** November 26, 2002

**GRANTED-DATE:** February 10, 2004

**ASSIGNEE-AT-ISSUE:** Direct Corporation, Cupertino, California, United States (US); United States company or corporation (52)

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Patent Number :

US2003171401 A1 20030911 [US20030171401]

Patent Number 2 :

US6689373 B2 20040210 [US6689373]

Title :

(A1) Devices and methods for pain management

Patent Assignee :

(B2) DURECT CORP (US)

Patent Assignee :

Durect Corporation, Cupertino CA [US]

Patent Assignee 2 :

(B2) DURECT CORP (US)

Inventor(s) :

(A1) JOHNSON RANDOLPH MELLUS (US); THEEUWES FELIX (US)

Application Nbr :

US30672702 20021126 [2002US-0306727]

Filing Details :

Cont. of US09522535 20000310 [2000US-0522535]

Prov. AP US60125589 19990318 [1999US-P125589]

Continuation of: US6541021

Priority Details :

US30672702 20021126 [2002US-0306727]

US52253500 20000310 [2000US-0522535]

US12558999P 19990318 [1999US-P125589]

Intl Patent Class :

(A1) A61K-009/22 A61K-031/445

IPC Advanced All :

A61K-009/00 [2006-01 A - I R M EP]; A61K-009/22 [2006-01 A - I R M US];

A61K-031/4468 [2006-01 A - I R M EP]; A61K-031/4535 [2006-01 A - I R M

EP]; A61K-047/10 [2006-01 A - I R M EP]; A61K-047/14 [2006-01 A - I R

M EP]; A61K-047/26 [2006-01 A - I R M EP]

IPC Core All :

A61K-009/00 [2006 C - I R M EP]; A61K-009/22 [2006 C - I R M US];

A61K-031/4468 [2006 C - I R M EP]; A61K-031/4523 [2006 C - I R M EP];

A61K-047/10 [2006 C - I R M EP]; A61K-047/14 [2006 C - I R M EP];

A61K-047/26 [2006 C - I R M EP]

EPO ECLA Class :

A61K-009/00M5D

A61K-031/4468

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A61K-047/10

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A61K-047/26

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ORIGINAL (O) : 424422000; CROSS-REFERENCE (X) : 424423000 424424000

424425000 424449000 424450000 424473000 424484000 514282000

604890100 604891100 604892100

Document Type :

Corresponding document

Citations :

Cited by examiner

-US6541021 [US6541021] 424422000

Cited by applicant

-US3141823 [US3141823]

-US3760984 [US3760984]

-US3916899 [US3916899]

-US3923426 [US3923426]

-US3987790 [US3987790]

-US3995631 [US3995631]

-US3998834 [US3998834]

-US4016880 [US4016880]

-US4036228 [US4036228]  
 -US4111202 [US4111202]  
 -US4111203 [US4111203]  
 -US4167574 [US4167574]  
 -US4203440 [US4203440]  
 -US4203442 [US4203442]  
 -US4210139 [US4210139]  
 -US4327725 [US4327725]  
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 -US4487603 [US4487603]  
 -US4576951 [US4576951]  
 -US4582835 [US4582835]  
 -US4588580 [US4588580]  
 -US4627850 [US4627850]  
 -US4681560 [US4681560]  
 -US4692147 [US4692147]  
 -US4725852 [US4725852]  
 -US4769372 [US4769372]  
 -US4781924 [US4781924]  
 -US4865845 [US4865845]  
 -US5057318 [US5057318]  
 -US5059423 [US5059423]  
 -US5112614 [US5112614]  
 -US5137727 [US5137727]  
 -US5180716 [US5180716]  
 -US5187177 [US5187177]  
 -US5234692 [US5234692]  
 -US5234693 [US5234693]  
 -US5346903 [US5346903]  
 -US5356635 [US5356635]  
 -US5451408 [US5451408]  
 -US5472943 [US5472943]  
 -US5486362 [US5486362]  
 -US5487739 [US5487739]  
 -US5512578 [US5512578]  
 -US5580876 [US5580876]  
 -US5633000 [US5633000]  
 -US5660854 [US5660854]  
 -US5672167 [US5672167]  
 -US5729396 [US5729396]  
 -US5747058 [US5747058]  
 -US5767125 [US5767125]  
 -US5798114 [US5798114]  
 -US5858388 [US5858388]  
 -US5980927 [US5980927]  
 -US5985305 [US5985305]  
 -USRE36547 [USRE36547]  
 -US6096756 [US6096756]  
 -US6203813 [US6203813]  
 -US6245351 [US6245351]  
 -US6436091 [US6436091]  
 -WO9727840 [WO9727840]  
 -WO9749391 [WO9749391]  
 -WO9851246 [WO9851246]  
 -WO9936071 [WO9936071]

Cited by applicant

-Ahmedzai (1997), "New approaches to pain control in patients with cancer." Eur. J. Cancer, 33(6):S8-S14.  
 - Anderson et al.. (1998), "Alternate routes of opioid administration in palliative care: pharmacologic and clinical concerns." J. Pharmaceut. Care Pain Sympt. Control, 6:5-21.  
 - Bansinath, et al.. (1989). "Hyperglycemia does not modify the pupillary effects of mu and kappa opiate Agonists in mice" J. Ocular

Pharmacology, vol. 5(1): 33-43.

- Bruera et al.. (1987). "Use of the subcutaneous route of the administration of narcotics in patients with cancer pain" Cancer, vol. 62(2): 407-411.
- Cherny et al.. (1995). "Opioid pharmacotherapy in the management of cancer pain" Cancer, vol. 76(7): 1283-1293.
- Clotz et al.. (1991). "Clinical uses of fentanyl, sufentanil, and alfentanil" Clinical Pharmacy, vol. 10: 581-593.
- Coda et al.. (1997). "Comparative efficacy of patient-controlled administration of morphine, hydromorphone, or sufentanil for the treatment of oral mucositis pain following bone marrow transplantation" Pain, vol. 72: 333-346.
- Coyle et al.. (1994), "Subcutaneous opioid infusions at home." Oncology, 8:21-27.
- Crane (1994). "Intermittent subcutaneous infusion of opioids in hospice home care: An affective, economical, manageable option" Am. J. Hospice & Palliative Care, vol. Jan./Feb.: 8-12.
- Dhasmana et al.. (1987). "Gastrointestinal transit following intrathecal or subcutaneous narcotic analgesics" Arch. Int. Pharmacodyn., vol. 286: 152-161.
- Fine (1997), "Fentanyl in the treatment of cancer pain." Sem. Oncol., 24(16):S16-S27.
- Finley (1990), "Pain management with spinally administered opioids." Am. J. Hosp. Pharm., 47(1):S14-S17.
- Fuginaga et al.. (1988). "Reproductive and teratogenic effects of sufentanil and alfentanil in Sprague-Dawley rats" Anesth Analg, vol. 67: 166-169.
- Geller et al.. (1993). "A randomized double-blind comparison of epidural sufentanil versus intravenous sufentanil or epidural fentanyl analgesia after major abdominal surgery" Anesth Analg, vol. 76: 1243-1250.
- Jeal et al.. (1997), "Transdermal fentanyl. A review of its pharmacologic properties and therapeutic efficacy in pain control." Drugs, 53:109-138.
- Kerr et al.. (1988), "Continuous narcotic infusion with patient-controlled analgesia for chronic cancer pain in outpatients." Ann. Intern. Med., 108:554-557.
- Kingery (1997), "A critical review of controlled clinical trials for peripheral neuropathic pain and complex regional pain syndromes." Pain, 73:123-139.
- Leelanuntakit (1996). "Management of cancer-related pain with transdermal fentanyl" J. Med. Assoc. Thai, vol. 79(6): 341-346.
- Martin et al.. (1983), "Epidural and intrathecal narcotics." Can. Anaesth. Soc. J., 30:662-673.
- Moulin et al.. (1992). "Subcutaneous narcotic infusions for cancer pain: treatment outcome and guidelines for use" Can. Med. Assoc. J., vol. 146(6): 891-897.
- Mucha et al.. (1990). "Parker and Radow test of drug withdrawal aversion: Opposite effect in rats chronically infused with sufentanil or amphetamine" Pharmacology Biochem. & Behavior, vol. 35: 219-224.
- Paix et al.. (1995). "Subcutaneous fentanyl and sufentanil infusion substitution for morphine intolerance in cancer pain management" Pain, vol. 3:263-269.
- Satterlee (1991). "Criteria for use of fentanyl citrate, sufentanil citrate, and alfentanil hydrochloride" Clinical Pharmacy, vol. 10: 635-637.
- Shaw (1993), "Treatment of intractable cancer pain by electronically controlled parenteral infusion of analgesic drugs." Cancer, 72:3416-3425.
- Skaer (1993), "Management of pain in the cancer patient." Clin. Ther., 15:638-649.
- Slattery et al.. (1985), "Newer methods of delivery of opiates for relief of pain." Drugs, 30:539-551.

- Sj/ogren et al.. (1994). "Disappearance of morphine-induced hyperalgesia after discontinuing or substituting morphine with other opioid agonists" Pain, vol. 59: 313-316.
- Taverne et al.. (1992). "Comparative absorption and distribution pharmacokinetics of intravenous and epidural sufentanil for major abdominal surgery" Clin. Pharmacokinet., vol. 23(3): 231-237.
- Van den Hoogen et .. (1987). "Epidural and subcutaneous morphine, meperidine (pethidine), fentanyl and sufentanil in the rat: Analgesia and other in vivo pharmacologic effects" Anesthesiology, vol. 66: 186-194.
- Van den Hoogen et al.. (1988). "Respiratory effects of epidural and subcutaneous morphine, meperidine (pethidine), fentanyl and sufentanil in the rat" Anesth Analg, vol. 67:1071-1078.
- Vertafridda et al.. (1987), "Intraspinal morphine for cancer pain." Acta Anaesthesiol Scand., 31(85):47-53.
- Wagner et al.. (1997). "Pharmacokinetics and pharmacodynamics of sedatives and analgesics in the treatment of agitated critically ill patients" Clin. Pharmacokinet, vol. 33(6): 426-453.
- Willens et al.. (1993). "Pharmacodynamics, pharmacokinetics, and clinical uses of fentanyl, sufentanil, and alfentanil" Heart & Lung, vol. 22(3): 239-251.
- Zeiler et al.. (1991). "Kontinuierliche peridurale sufentanil-applikation zur postoperativen analgesie" Anaesthesist, vol. 40: 543-548.

Publication Stage :

(A1) Utility Patent Application published on or after January 2, 2001

Publication Stage 2 :

(B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001

Abstract :

The invention features devices and methods for the systemic delivery of fentanyl or a fentanyl congener (e.g., sufentanil) to treat pain. In the present invention, a drug formulation comprising fentanyl or a fentanyl congener is stored within a drug delivery device (e.g., contained in a reservoir or impregnated within a matrix within the controlled drug delivery device). The drug formulation comprises an amount of drug sufficient for treatment and is stable at body temperatures (i.e., no unacceptable degradation) for the entire pre-selected treatment period. The drug delivery devices store the drug formulation safely (e.g., without dose dumping), provide sufficient protection from bodily processes to prevent unacceptable degradation of the formulation, and release the drug formulation in a controlled fashion at a therapeutically effective rate to treat pain. In use, the drug delivery device is implanted in the subject's body at an implantation site, and the drug formulation is released from the drug delivery device to a delivery site. The delivery site may be the same as, near, or distant from the implantation site. Once released at the delivery site, the drug formulation enters the systemic circulation and is transported to the site of action in the body to modulate the pain response (e.g., the brain or other pain sensory location).

Update Code :

2003-49

